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APPLICATION NO.	Fi	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,179		10/20/2003	Seung Eon Moon	51876P400	3926
8791	7590	07/26/2006		EXAMINER	
		OFF TAYLOR & Z	AUSTIN, AARON		
SEVENTH FLOOR				ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90025-1030				1775	

DATE MAILED: 07/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			· /
	Application No.	Applicant(s)	· ·
	10/690,179	MOON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Aaron S. Austin	1775	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication ED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 09 /	<i>May</i> 2006.		
2a) This action is <b>FINAL</b> . 2b) ⊠ Thi	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matters, pro	osecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1,2,8 and 9</u> is/are pending in the app	olication.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,2,8 and 9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	cepted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	•	1).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119(a	)-(d) or (f).	
Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority documen	• •		
3. Copies of the certified copies of the price	·	ed in this National Stage	
application from the International Burea  * See the attached detailed Office action for a lis	, ,,	od	
See the attached detailed Office action for a lis	t of the certified copies not receive	su.	
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) Interview Summary Paper No(s)/Mail D		
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Patent Application (PTO-152)	

### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 9, 2006 has been entered.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 and 8-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Chang (US Patent Application No. 2003/0022030).

Chang teaches a strain-relieved tunable dielectric thin film. The thin films preferably include a low dielectric loss substrate, a crystalline dielectric film, and a buffer layer (paragraph [0006]). Both the crystalline dielectric film and buffer layer may include

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BST (paragraph [0006]) in a (111) orientation (paragraph [0032]). The thin film is taught as a MgO substrate (10), a BST (20) dielectric thin film disposed over the substrate (10), and a single layer electrode (22) formed on the BST thin film and separated from the MgO substrate (paragraph [0038] and Fig. 5a). The BST thin film completely covers the MgO substrate. Such films are used to develop low loss tunable microwave devices, such as voltage-controlled oscillators, tunable filters and phase shifters, which are known components of phase array antenna systems and satellite communication systems.

### Response to Arguments

Applicant's arguments with respect to claims 1-2 and 8-9 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron S. Austin whose telephone number is (571) 272-8935. The examiner can normally be reached on Monday-Friday: 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ASA

JENNIFER C. MCNEIL SUPERVISORY PATENT EXAMINER

7/17/06